

date 08/05/2022

page 1 of 4

MODEL: CMC-5042PF-AC | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- ominidirectional
- 6.0 mm diameter
- solder pins





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-45	-42	-39	dB
standard operating voltage (Vs)			2		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.5 Vdc		-3		dB
frequency (f)		100		20,000	Hz
current consumption (IDSS)	Vs = 2.0 Vdc, RL = 2.2 $k\Omega$			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		56		dBA
dimensions	Ø6.0 x 5.0				mm
material	AL				
terminal	solder pins (gold plating)				
weight				0.30	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	Ves				

Notes:

 $2. All \ specifications \ measured \ at \ 5~35°C, \ humidity \ at \ 45~85\%, \ under \ 86~106 \ kPa \ pressure, \ unless \ otherwise \ noted.$

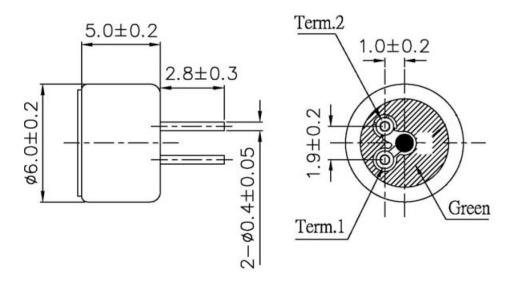
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	270	280	290	°C

^{1.} We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1V/Pa)

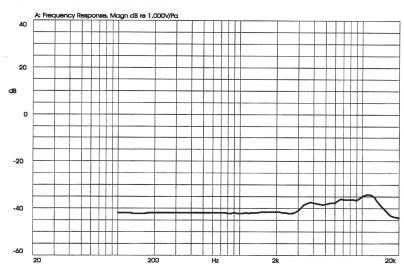
MECHANICAL DRAWING

units: mm

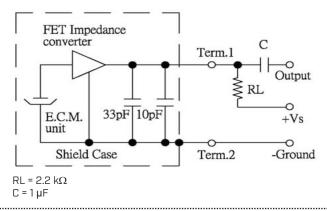


FREQUENCY RESPONSE CURVE

X:1.0000kHz *Y:-42.00dB ZA:Live Curve SSR Fund.



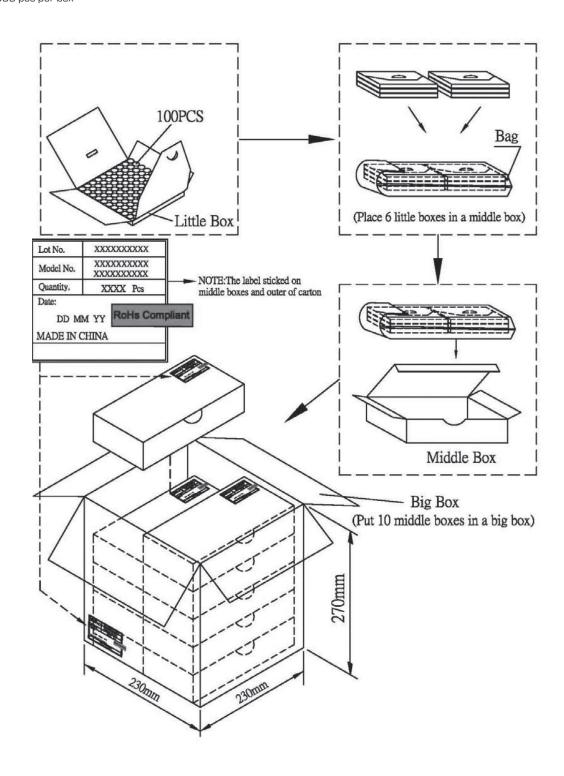
APPLICATION CIRCUIT



PACKAGING

units: mm

Inner Box Size: 100 x 100 x 11 mm Outer Box Size: 230 x 230 x 270 mm Inner Box QTY: 100 pcs per box Outer Box QTY: 6,000 pcs per box



Additional Resources: Product Page | 3D Model | PCB Footprint

CUI DEVICES | MODEL: CMC-5042PF-AC | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

date 08/05/2022 | **page** 4 of 4

REVISION HISTORY

rev.	description	date	
1.0	initial release	06/01/2008	
1.01	brand update	04/24/2020	
1.02	shortened pin length, added capacitors	10/15/2021	
1.03	logo, datasheet style update	08/05/2022	

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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